SEQUENCE LISTING

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<151> 2007-12-17
<150> 60/932,788
<151> 2007-05-31
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
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Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Gly
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
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65
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Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Arg Pro
Val Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala
                                                     110
                                 105
            100
Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
                                                 125
                             120
        115
Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
                                             140
                         135
    130
Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser
                                                              160
                                         155
                    150
145
Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
                                                          175
                 165
Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
                                                      190
                                 185
            180
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Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
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Ser Phe Asn Arg Gly Glu Cys
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                                                     30
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Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
                                                 45
        35
                             40
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
Leu Lys Asn Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
                                                              80
                    70
65
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                                                     110
                                 105
            100
Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser
                                                 125
                             120
        115
Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
                                         155
145
                    150
Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
                                     170
                165
His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
            180
                                 185
                                                     190
Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
        195
                                                 205
                             200
Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val
                                             220
    210
                         215
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
                                                              240
225
                                         235
                     230
Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
                                     250
                245
Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
                                                      270
                                 265
            260
Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
        275
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                             280
Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
                                             300
    290
                         295
Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
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Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys. Ala
                                     330
                 325
Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
                                                     350
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            340
Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
                                                 365
                             360
        355
Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
                                             380
                         375
    370
Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
                                                              400
                                         395
                     390
385
Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
                                                          415
                                     410
                 405
Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
                                 425
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Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
                                                  445
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Ser Leu Ser Leu Ser Pro Gly Lys
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Arg Val Thr Ile Ser Cys Thr Gly Asp Arg Ser Asn Ile Gly Ala Thr
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Arg Ala Pro Lys Leu
                                                  45
                             40
        35
Leu Ile Tyr Gly Asn His Asn Arg Pro Ser Gly Val Pro Glu Arg Phe
Ser Gly Ser Lys Ser Gly Ser Ser Ala Ser Leu Ala Ile Ala Gly Leu
                                                              80
                     70
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Gly
Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
                                 105
                                                      110
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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Ser
Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
        35
                             40
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
    50
Leu Lys Asn Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
                                                             80
                    70
                                         75
65
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                                 105
            100
Phe Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                                                 125
                             120
        115
<210> 5
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<223> mAb CS-C10 light chain variable region
<400> 5
Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln
                                                         15
                                     10
 1
Arg Val Thr Ile Ser Cys Thr Gly Gly Ser Ser Asn Ile Gly Ala Gly
                                 25
                                                     30
            20
Tyr Asp Val His Trp Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu
        35
Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
                         55
    50
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
                                                         95
                85
                                     90
Leu Asn Gly Pro Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu
                                                     110
                                 105
            100
Gly
<210> 6
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<223> mAb CS-C10 heavy chain variable region
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<400> 6

1

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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Ser
Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
                             40
        35
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
    50
Leu Lys Ser Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
                                                              80
                    70
                                         75
65
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                                                     110
                                 105
            100
Phe Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser
                                                 125
        115
                             120
<210> 7
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<223> mAb CS-A10 light chain variable region
<400> 7
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
                                                          15
                                     10
 1
Thr Ala Thr Ile Thr Cys Ser Gly Asp Asn Leu Gly Asp Lys Ser Val
                                 25
            20
                                                      30
Ser Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu Val Met Ser
        35
Gln Gly Ser Lys Arg Pro Leu Gly Ile Pro Asp Arg Ile Ser Gly Ser
                         55
Asn Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Val Gln Thr Val
Asp Glu Ala Asp Phe Tyr Cys Gln Thr Trp Asp Arg Tyr Thr Gly Val
                                    . 90
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Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly
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<223> mAb CS-A10 heavy chain variable region
<400> 8
Arg Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gly
                                                          15
 1
                                     10
                                     - 5 -
```

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu

20

```
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Ser
                                 25
            20
Ser Tyr Tyr Trp Gly Trp Phe Arg Gln Thr Pro Gly Lys Gly Leu Glu
Trp Leu Gly Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
                                             60
                         55
Leu Lys Gly Arg Val Thr Ile Ser Ile Asp Thr Ser Glu Asn Gln Ser
                                                              80
65
                                         75
                    70
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                                                          95
                85
Cys Ala Arg Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro
                                                     110
                                 105
            100
Phe Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                             120
                                                 125
        115
<210> 9
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<223> mAb BMV-H11 light chain variable region
<400> 9
Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
                                     10
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
                                                      30
            20
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
        35
                                                  45
                             40
Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe
    50
                         55
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
                                         75
                     70
65
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg
                                     90
Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
                                 105
            100
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<223> mAb BMV-H11 heavy chain variable region
<400> 10
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10

15

30

Arg Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu

Thr Leu Ser Leu Ile Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser

```
Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
Trp Ile Gly Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser
Leu Lys Ser Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
                                                             80
                    70
                                         75
65
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
Cys Ala Arg Pro Leu Gly Tyr Asn Phe Asp Ser Ser Gly Gln Gly Lys
            100
                                 105
                                                     110
Ser Ala Phe Glu Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115
                                                 125
                             120
<210> 11
<211> 111
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<223> mAb BMV-E6 light chain variable region
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<400> 11 Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln 10 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr 20 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu 35 40 45 Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe 50 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg 85 95 90 Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 105 100 110

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<220> <223> mAb BMV-E6 heavy chain variable region

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Trp Ile Gly Asn Met Phe Tyr Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
Leu Lys Ser Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
                                                             80
                    70
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                                                         95
                                     90
                85
Cys Ala Arg Pro Leu Gly His Asn Phe Asp Ser Ser Gly Gln Gly Glu
                                 105
                                                     110
            100
Gly Ala Phe Glu Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser
                            120
                                                 125
        115
<210> 13
<211> 111
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb BMV-D4 light chain variable region
<400> 13
Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
                                     10
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
        35
Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe
                                             60
    50
                        55
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg
Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
                                105
                                                     110
            100
<210> 14
<211> 128
<212> PRT
<213> Artificial Sequence
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<223> mAb BMV-D4 heavy chain variable region
<400> 14
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
                                                         15
 1
                                     10
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser
                                                     30
            20
Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
                                                 45
                             40
        35
Trp Ile Gly Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser
                                             60
                        55
    50
```

```
Leu Lys Asn Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
65
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                                     90
Cys Ala Arg Pro Leu Gly Tyr Asn Phe Asp Ser Ser Gly Gln Gly Lys
                                                     110
            100
                                 105
Ser Ala Phe Glu Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser
                                                 125
        115
                            120
<210> 15
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<212> PRT
<213> Artificial Sequence
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<223> mAb BMV-C2 light chain variable region
<400> 15
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
                                     10
Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn
Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met
        35
                            40
Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
    50
                        55
                                             60
Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln
65
                    70
                                         75
                                                             80
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly
                             105
            100
<210> 16
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Glu Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
                                                     30
            20
Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
        35
                            40
                                                 45
Trp Ile Gly Asn Met Phe Tyr Ser Gly Ser Ala Tyr Tyr Asn Pro Ser
    50
                        55
                                             60
Leu Lys Ser Arg Val Ser Ile Ser Val Gly Pro Ser Ser Asn Gln Phe
```

70

65

```
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85
Cys Ala Arg Pro Leu Gly His Asn Phe Asp Ser Ser Gly Gln Gly Glu
            100
                                105
Gly Ala Phe Glu Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115
                            120
                                                 125
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<223> mAb CS-D7 VL CDR1
<400> 17
Arg Ala Ser Gln Tyr Val Ser Asp Asn Leu Ala
                                     10
 1
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<400> 18
Gly Ala Ser Thr Arg Ala Thr
                 5
 1
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<223> mAb CS-D7 VL CDR3
<400> 19
Gln Gln Tyr Asn Asn Trp Arg Pro Val Thr
                                     10
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<213> Artificial Sequence
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<223> mAb CS-E11 VL CDR1
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<400> 20
Thr Gly Asp Arg Ser Asn Ile Gly Ala Thr Tyr Asp Val His
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<210> 21
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<400> 21
Gly Asn His Asn Arg Pro Ser
<210> 22
<211> 11
<212> PRT
<213> Artificial Sequence
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<400> 22
Gln Ser Tyr Asp Ser Gly Leu Ser Gly Tyr Val
                                     10
                  5
 1
<210> 23
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<212> PRT
<213> Artificial Sequence
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<400> 23
Thr Gly Gly Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His
                                     10
 1
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<400> 24
Gly Asn Ser Asn Arg Pro Ser
 1
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<210> 25
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<223> mAb CS-D10 VL CDR3
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Gln Ser Tyr Asp Ser Ser Leu Asn Gly Pro Val Val
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<223> mAb CS-A10 VL CDR1
<400> 26
Ser Gly Asp Asn Leu Gly Asp Lys Ser Val Ser
 1
                                     10
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Gln Gly Ser Lys Arg Pro Leu
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Gln Thr Trp Asp Arg Tyr Thr Gly Val Val
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<210> 29
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<223> mAbs BMV-H11, BMV-E6 and BMV-D4 VL CDR1
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Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
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<213> Artificial Sequence
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Glu Gly Ser Lys Arg Pro Ser
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<212> PRT
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<223> mAbs BMV-H11, BMV-E6 and BMV-D4 VL CDR3
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Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val
<210> 32
<211> 13
<212> PRT
<213> Artificial Sequence
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<223> mAb BMV-C2 VL CDR1
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Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser
                                     10
 1
<210> 33
<211> 7
<212> PRT
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<220>
<223> mAb BMV-C2 VL CDR2
<400> 33
Asp Val Ser Lys Arg Pro Ser
 1
<210> 34
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<212> PRT
<213> Artificial Sequence
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<223> mAb BMV-C2 VL CDR3
<400> 34
Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu
                                     10
 1
<210> 35
<211> 12
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<213> Artificial Sequence
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<223> mAbs CS-D7, CS-E11, CS-D10 and CS-A10 VH CDR1
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Gly Gly Ser Ile Arg Ser Ser Ser Tyr Tyr Trp Gly
<210> 36
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<212> PRT
<213> Artificial Sequence
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<223> mAbs CS-D7 and CS-E11 VH CDR2
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Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Asn
                                     10
                                                         15
<210> 37
<211> 16
<212> PRT
<213> Artificial Sequence
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<220>
<223> mAbs CS-D7, CS-E11, CS-D10 and CS-A10 VH CDR3
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Pro Gln Ala Tyr Ser His Asp Ser Ser Gly His Ser Pro Phe Asp Leu
                                     10
                                                         15
 1
<210> 38
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> mAb CS-D10 VH CDR2
<400> 38
Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Ser
 1
                 5
                                     10
                                                         15
<210> 39
<211> 16
<212> PRT
<213> Artificial Sequence
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<223> mAb CS-A10 VH CDR2
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Asn Val Phe Phe Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Gly
                                     10
                                                         15
<210> 40
<211> 12
<212> PRT
<213> Artificial Sequence
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<223> mAbs BMV-H11, BMV-E6, BMV-D4 and BMV-C2 VH CDR1
<400> 40
Gly Gly Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly
<210> 41
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<213> Artificial Sequence
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<223> mAb BMV-H11 VH CDR2
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<400> 41
Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser Leu Lys Ser
                                     10
<210> 42
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Pro Leu Gly Tyr Asn Phe Asp Ser Ser Gly Gln Gly Lys Ser Ala Phe
 1
                                                         15
                                     10
Glu Ile
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Asn Met Phe Tyr Ser Gly Ser Ala Tyr Tyr Asn Pro Ser Leu Lys Ser
 1
                                     10
                                                         15
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<213> Artificial Sequence
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<223> mAb BMV-D4 VH CDR2
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Asn Met Phe Tyr Ser Gly Gly Ala Tyr Tyr Asn Pro Ser Leu Lys Asn
                                    10
<210> 45
<211> 18
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<213> Artificial Sequence
<220>
<223> mAbs BMV-E6 and BMV-C2 VH CDR3
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<400> 45
Pro Leu Gly His Asn Phe Asp Ser Ser Gly Gln Gly Glu Gly Ala Phe
                                    10
Glu Ile
<210> 46
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<213> Artificial Sequence
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Met Asn Lys Gln Gln Lys Glu Phe Lys Ser Phe Tyr Ser Ile Arg Lys
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Ser Ser Leu Gly Val Ala Ser Val Ala Ile Ser Thr Leu Leu Leu
                                25
Met Ser Asn Gly Glu Ala Gln Ala Ala Glu Glu Thr Gly Gly Thr
        35
                            40
                                                45
Asn Thr Glu Ala Gln Pro Lys Thr Glu Ala Val Ala Ser Pro Thr Thr
    50
                        55
                                            60
Thr Ser Glu Lys Ala Pro Glu Thr Lys Pro Val Ala Asn Ala Val Ser
65
                    70
                                        75
                                                            80
Val Ser Asn Lys Glu Val Glu Ala Pro Thr Ser Glu Thr Lys Glu Ala
                85
                                    90
Lys Glu Val Lys Glu Val Lys Ala Pro Lys Glu Thr Lys Ala Val Lys
            100
                                105
Pro Ala Ala Lys Ala Thr Asn Asn Thr Tyr Pro Ile Leu Asn Gln Glu
        115
                            120
                                               125
Leu Arg Glu Ala Ile Lys Asn Pro Ala Ile Lys Asp Lys Asp His Ser
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                        135
                                            140
Ala Pro Asn Ser Arg Pro Ile Asp Phe Glu Met Lys Lys Glu Asn Gly
145
                    150
                                        155
                                                           160
Glu Gln Gln Phe Tyr His Tyr Ala Ser Ser Val Lys Pro Ala Arg Val
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                                   170
                                                       175
Ile Phe Thr Asp Ser Lys Pro Glu Ile Glu Leu Gly Leu Gln Ser Gly
            180
                               185
                                                   190
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Gln Phe Trp Arg Lys Phe Glu Val Tyr Glu Gly Asp Lys Lys Leu Pro Ile Lys Leu Val Ser Tyr Asp Thr Val Lys Asp Tyr Ala Tyr Ile Arg Phe Ser Val Ser Asn Gly Thr Lys Ala Val Lys Ile Val Ser Ser Thr His Phe Asn Asn Lys Glu Glu Lys Tyr Asp Tyr Thr Leu Met Glu Phe Ala Gln Pro Ile Tyr Asn Ser Ala Asp Lys Phe Lys Thr Glu Glu Asp Tyr Lys Ala Glu Lys Leu Leu Ala Pro Tyr Lys Lys Ala Lys Thr Leu Glu Arg Gln Val Tyr Glu Leu Asn Lys Ile Gln Asp Lys Leu Pro Glu Lys Leu Lys Ala Glu Tyr Lys Lys Lys Leu Glu Asp Thr Lys Lys Ala Leu Asp Glu Gln Val Lys Ser Ala Ile Thr Glu Phe Gln Asn Val Gln Pro Thr Asn Glu Lys Met Thr Asp Leu Gln Asp Thr Lys Tyr Val Val Tyr Glu Ser Val Glu Asn Asn Glu Ser Met Met Asp Thr Phe Val Lys His Pro Ile Lys Thr Gly Met Leu Asn Gly Lys Lys Tyr Met Val Met Glu Thr Thr Asn Asp Asp Tyr Trp Lys Asp Phe Met Val Glu Gly Gln Arg Val Arg Thr Ile Ser Lys Asp Ala Lys Asn Asn Thr Arg Thr Ile Ile Phe Pro Tyr Val Glu Gly Lys Thr Leu Tyr Asp Ala Ile Val Lys Val His Val Lys Thr Ile Asp Tyr Asp Gly Gln Tyr His Val Arg Ile Val Asp Lys Glu Ala Phe Thr Lys Ala Asn Thr Asp Lys Ser Asn Lys Lys Glu Gln Gln Asp Asn Ser Ala Lys Lys Glu Ala Thr Pro Ala Thr Pro Ser Lys Pro Thr Pro Ser Pro Val Glu Lys Glu Ser Gln Lys Gln Asp Ser Gln Lys Asp Asp Asn Lys Gln Leu Pro Ser Val Glu Lys Glu Asn Asp Ala Ser Ser Glu Ser Gly Lys Asp Lys Thr Pro Ala Thr Lys Pro Thr Lys Gly Glu Val Glu Ser Ser Ser Thr Thr Pro Thr Lys Val Val Ser Thr Thr Gln Asn Val Ala Lys Pro Thr Thr Ala Ser Ser Lys Thr Thr Lys Asp Val Val Gln Thr Ser Ala Gly Ser Ser Glu Ala Lys Asp Ser Ala Pro Leu Gln Lys Ala Asn Ile Lys Asn Thr Asn Asp Gly His Thr Gln Ser Gln Asn Asn Lys Asn Thr Gln Glu Asn Lys Ala Lys Ser Leu Pro Gln Thr Gly Glu Glu Ser Asn Lys Asp Met Thr Leu Pro

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                                                      30
Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro Val
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                                                  45
        35
Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn Lys
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                         55
                                             60
Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
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His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
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